

Day : Wednesday

Date: 11/22/2006

Time: 14:26:05

PALM INTRANET

**Inventor Name Search Result**

Your Search was:

Last Name = TRUTNA

First Name = WILLIAM

| Application#             | Patent#                 | Status | Date Filed | Title  | Inventor Name           |
|--------------------------|-------------------------|--------|------------|--|-------------------------|
| <a href="#">08665334</a> | <a href="#">5629126</a> | 150    | 06/17/1996 | PHOSPHOR FILM COMPOSITION HAVING SENSITIVITY IN THE RED FOR USE IN IMAGE CAPTURE | TRUTNA JR., WILLIAM R.  |
| <a href="#">09240284</a> | <a href="#">6212213</a> | 150    | 01/29/1999 | PROJECTOR LIGHT SOURCE UTILIZING A SOLID STATE GREEN LIGHT SOURCE                | TRUTNA, JR., WILLIAM R. |
| <a href="#">10768858</a> | Not Issued              | 41     | 01/29/2004 | Optical isolator utilizing a micro-resonator                                     | TRUTNA, WILLIAM         |
| <a href="#">11316855</a> | Not Issued              | 19     | 12/23/2005 | Littrow interferometer   | TRUTNA, WILLIAM R.      |
| <a href="#">09703400</a> | <a href="#">6658212</a> | 150    | 10/31/2000 | POLARIZATION-INDEPENDENT, CONFIGURABLE OPTICAL MULTIPLEXER                       | TRUTNA, WILLIAM R.      |
| <a href="#">09887954</a> | <a href="#">6682207</a> | 150    | 06/22/2001 | GREEN PHOSPHOR CONVERTED LIGHT EMITTING DIODE                                    | TRUTNA, WILLIAM R.      |
| <a href="#">09962635</a> | Not Issued              | 41     | 09/25/2001 | Optical demultiplexing device with optical to electrical conversion              | TRUTNA, WILLIAM R.      |
| <a href="#">09972803</a> | Not Issued              | 161    | 10/05/2001 | Optical interleaver  | TRUTNA, WILLIAM R.      |
| <a href="#">10087436</a> | Not Issued              | 161    | 03/01/2002 | Multiple modulated wavelengths in a compact laser                                | TRUTNA, WILLIAM R.      |
| <a href="#">10243216</a> | Not Issued              | 71     | 09/12/2002 | Optical multiplexer/demultiplexer having decreased channel spacing               | TRUTNA, WILLIAM R.      |
| <a href="#">10347069</a> | Not Issued              | 135    | 01/17/2003 | Optical multiplexer / de-multiplexer with regions of altered refractive index    | TRUTNA, WILLIAM R.      |
| <a href="#">10626446</a> | Not Issued              | 41     | 07/24/2003 | Optical communication system and method using spread-spectrum encoding           | TRUTNA, WILLIAM R.      |

|                 |            |    |            |   |                    |
|-----------------|------------|----|------------|---|--------------------|
| <u>10733675</u> | Not Issued | 30 | 12/11/2003 | Communication system using wavelength spread-spectrum coding                                | TRUTNA, WILLIAM R. |
| <u>10823191</u> | Not Issued | 71 | 04/13/2004 | Wavelength tunable light sources and methods of operating the same                          | TRUTNA, WILLIAM R. |
| <u>10838504</u> | Not Issued | 30 | 05/03/2004 | Optically-controlled optical network and switching node therefor                            | TRUTNA, WILLIAM R. |
| <u>10898646</u> | Not Issued | 80 | 07/23/2004 | Metallic contact electrical switch incorporating lorentz actuator                           | TRUTNA, WILLIAM R. |
| <u>10936113</u> | Not Issued | 41 | 09/08/2004 | Frequency-tunable light sources and methods of generating frequency-tunable light           | TRUTNA, WILLIAM R. |
| <u>11058152</u> | Not Issued | 30 | 02/15/2005 | Tuning a laser  | TRUTNA, WILLIAM R. |
| <u>11073345</u> | Not Issued | 30 | 03/04/2005 | Film-bulk acoustic wave resonator with motion plate   | TRUTNA, WILLIAM R. |
| <u>11122964</u> | Not Issued | 20 | 05/05/2005 | Imaging device employing optical motion sensor as gyroscope                                 | TRUTNA, WILLIAM R. |
| <u>11126805</u> | Not Issued | 71 | 05/10/2005 | Optical waveguide display systems and methods   | TRUTNA, WILLIAM R. |
| <u>11185406</u> | Not Issued | 30 | 07/20/2005 | Resonant structure humidity sensor  | TRUTNA, WILLIAM R. |
| <u>11212460</u> | Not Issued | 30 | 08/26/2005 | Method and system for determining the motion of an imaging apparatus                        | TRUTNA, WILLIAM R. |
| <u>11226974</u> | Not Issued | 30 | 09/15/2005 | Detecting wireless channel status from acoustic discrimination of spectral content          | TRUTNA, WILLIAM R. |
| <u>11232319</u> | Not Issued | 20 | 09/21/2005 | Imaging device with blur reduction system   | TRUTNA, WILLIAM R. |
| <u>11262178</u> | Not Issued | 30 | 10/28/2005 | Spread-spectrum radio utilizing MEMS components   | TRUTNA, WILLIAM R. |
| <u>11264264</u> | Not Issued | 30 | 10/31/2005 | System and method for determining the bearing of a source location from a receiver location | TRUTNA, WILLIAM R. |
| <u>11347954</u> | Not Issued | 30 | 02/06/2006 | Vertical cavity surface emitting laser (VCSEL) array laser scanner                          | TRUTNA, WILLIAM R. |
| <u>11512683</u> | Not Issued | 30 | 08/30/2006 | System and method for detecting an object in the path of a vehicle                          | TRUTNA, WILLIAM R. |
| <u>11545681</u> | Not Issued | 25 | 10/10/2006 | Optical multiplexer / de-multiplexer with regions of altered refractive index               | TRUTNA, WILLIAM R. |

|                 |                |     |            |   |                       |
|-----------------|----------------|-----|------------|---|-----------------------|
| <u>06234794</u> | <u>4361469</u> | 150 | 02/17/1981 | PROCESS FOR USING<br>COCURRENT CONTACTING<br>DISTILLATION COLUMNS       | TRUTNA,<br>WILLIAM R. |
| <u>06248761</u> | <u>4362809</u> | 150 | 03/30/1981 | MULTILAYER PHOTORESIST<br>PROCESS UTILIZING AN<br>ABSORBANT DYE         | TRUTNA,<br>WILLIAM R. |
| <u>06564854</u> | <u>4631416</u> | 150 | 12/19/1983 | WAFER/MASK ALIGNMENT<br>SYSTEM USING DIFFRACTION<br>GRATINGS            | TRUTNA,<br>WILLIAM R. |
| <u>06720821</u> | Not<br>Issued  | 166 | 04/08/1985 | PARAMETRIC DIODE<br>AMPLIFIER   | TRUTNA,<br>WILLIAM R. |
| <u>06935661</u> | Not<br>Issued  | 166 | 11/26/1986 | SPREAD SPECTRUM OPTICAL<br>TIME DOMAIN<br>REFLECTOMETER                 | TRUTNA,<br>WILLIAM R. |
| <u>07014751</u> | <u>4747111</u> | 150 | 02/13/1987 | QUASI-PLANAR MONOLITHIC<br>UNIDIRECTIONAL RING<br>LASER                 | TRUTNA,<br>WILLIAM R. |
| <u>07191729</u> | <u>4805237</u> | 150 | 05/10/1988 | PARAMETRIC DIODE<br>AMPLIFIER   | TRUTNA,<br>WILLIAM R. |
| <u>07208340</u> | <u>4942583</u> | 150 | 06/17/1988 | MISALIGNMENT-TOLERANT,<br>GRATING-TUNED EXTERNAL-<br>CAVITY LASER       | TRUTNA,<br>WILLIAM R. |
| <u>07234432</u> | <u>5007065</u> | 250 | 08/19/1988 | BILITHIC UNIDIRECTIONAL<br>RING LASER                                   | TRUTNA,<br>WILLIAM R. |
| <u>07307139</u> | Not<br>Issued  | 166 | 02/06/1989 | SPREAD SPECTRUM OPTICAL<br>TIME DOMAIN<br>REFLECTOMETER                 | TRUTNA,<br>WILLIAM R. |
| <u>07415438</u> | <u>5000568</u> | 150 | 09/28/1989 | SPREAD SPECTRUM OPTICAL<br>TIME DOMAIN<br>REFLECTOMETER                 | TRUTNA,<br>WILLIAM R. |
| <u>07561024</u> | <u>5140599</u> | 150 | 08/01/1990 | OPTICAL OSCILLATOR<br>SWEEPER   | TRUTNA,<br>WILLIAM R. |
| <u>08287433</u> | <u>5534702</u> | 150 | 08/08/1994 | RESOLUTION IMPROVEMENT<br>OF IMAGES RECORDED USING<br>STORAGE PHOSPHORS | TRUTNA,<br>WILLIAM R. |
| <u>08555889</u> | <u>5695548</u> | 150 | 11/13/1995 | METHOD AND APPARATUS<br>FOR PRODUCING CO-<br>CURRENT FLUID CONTACT      | TRUTNA,<br>WILLIAM R. |
| <u>09239571</u> | <u>6325524</u> | 150 | 01/29/1999 | SOLID STATE BASED<br>ILLUMINATION SOURCE FOR<br>A PROJECTION DISPLAY    | TRUTNA,<br>WILLIAM R. |
| <u>09239572</u> | <u>6273589</u> | 150 | 01/29/1999 | SOLID STATE ILLUMINATION<br>SOURCE UTILIZING DICHROIC<br>REFLECTORS     | TRUTNA,<br>WILLIAM R. |
| <u>10233940</u> | <u>6842286</u> | 150 | 09/03/2002 | OPTICAL SYSTEM AND  | TRUTNA,               |

|                          |                         |     |            |  |                         |
|--------------------------|-------------------------|-----|------------|--|-------------------------|
|                          |                         |     |            | METHODS THAT COMPENSATE FOR CHANGES IN ATMOSPHERIC CONDITIONS                                      | WILLIAM RICHARD         |
| <a href="#">10262339</a> | <a href="#">6731661</a> | 150 | 10/01/2002 | TUNING MECHANISM FOR A TUNABLE EXTERNAL-CAVITY LASER   | TRUTNA, WILLIAM RICHARD |
| <a href="#">10366755</a> | Not Issued              | 41  | 02/13/2003 | Method and apparatus for modifying the spread of a laser beam                                      | TRUTNA, WILLIAM RICHARD |
| <a href="#">10795034</a> | <a href="#">7016102</a> | 150 | 03/05/2004 | APPARATUS AND METHOD FOR SHIFTING THE FREQUENCY OF AN OPTICAL SIGNAL BY TWO-STAGE RAMAN SCATTERING | TRUTNA, WILLIAM RICHARD |

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|---------------------------------|-------------------------------------|--------------------------------------|---------------------------------------|
| <b>Search Another: Inventor</b> | <b>Last Name</b>                    | <b>First Name</b>                    | <input type="button" value="Search"/> |
|                                 | <input type="text" value="TRUTNA"/> | <input type="text" value="WILLIAM"/> |                                       |

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|    | Type | Ref # | Hits    | Search Text   |
|----|------|-------|---------|---|
| 1  | BRS  | S5    | 14      | ("6,608,949" "6,556,599" "6,526,071"<br>"6,493,129" "6,345,059" "6,339,603"<br>"6,282,215" "6,141,360" "6031852"<br>"5,923,685" "5,724,373" "5,140,599"<br>"4,707,835" "5,894,492").pn. |
| 2  | BRS  | S6    | 1       | S3 and (reson\$5 same (oscil\$7 mod\$4<br>gain\$2 amplif\$6)) and grating\$2 and<br>(acoust\$6 same (dopp\$4 shift\$5<br>frequenc\$4))  |
| 3  | BRS  | S7    | 1       | S3 and (doppl\$4 near14 (shift\$5<br>opposi\$4))  |
| 4  | BRS  | S8    | 35270   | reson\$5 near7 (cavit\$5 mod\$4) same<br>mod\$4   |
| 5  | BRS  | S9    | 136564  | (adjust\$5 tun\$4) near16 (reson\$5<br>mod\$2)  |
| 6  | BRS  | S10   | 3627998 | (half-wave halfwave plate\$2)   |
| 7  | BRS  | S11   | 1376004 | (gain\$4 amplif\$5)   |
| 8  | BRS  | S12   | 1998    | (first second) near4 acoust\$6 same<br>acoust\$6 near5 (reflect\$5 deflect\$5)  |
| 9  | BRS  | S13   | 2844    | acoust\$6 near14 grating\$1   |
| 10 | BRS  | S14   | 36484   | transducer\$3 near14 acoust\$6  |
| 11 | BRS  | S15   | 14507   | (first second) near4 grating\$2   |
| 12 | BRS  | S16   | 10      | S8 and S9 and S10 and S11 and S12 and<br>S13 and S14 and S15  |
| 13 | BRS  | S17   | 9       | S16 and filter\$5   |
| 14 | BRS  | S18   | 9       | S17 and (wavelength\$4 near14 (tun\$4<br>shift\$5 adjust\$5 modif\$5 chang\$5))   |
| 15 | BRS  | S19   | 9       | S18 and mode\$1   |
| 16 | BRS  | S3    | 1       | 10/823191   |
| 17 | BRS  | S20   | 1       | S16 not S17   |
| 18 | BRS  | S21   | 255475  | (adjust\$5 tun\$4) same (reson\$5 mod\$2)   |
| 19 | BRS  | S22   | 17191   | (first second) near4 acoust\$6  |

|    | <b>DBs</b>                            | <b>Time Stamp</b> |
|----|---------------------------------------|-------------------|
| 1  | US-PGPUB; USPAT                       | 2006/06/05 19:32  |
| 2  | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/05 19:42  |
| 3  | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/05 19:40  |
| 4  | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/05 19:43  |
| 5  | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/05 20:05  |
| 6  | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/05 19:45  |
| 7  | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/05 19:45  |
| 8  | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/05 20:06  |
| 9  | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/05 19:49  |
| 10 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/05 19:50  |
| 11 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/05 20:09  |
| 12 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/05 20:08  |
| 13 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/05 19:55  |
| 14 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/05 19:56  |
| 15 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/05 20:02  |
| 16 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/11/20 17:02  |
| 17 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/05 20:02  |
| 18 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/05 20:05  |
| 19 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/05 20:06  |

|    | Type | Ref # | Hits    | Search Text  |
|----|------|-------|---------|--|
| 20 | BRS  | S23   | 46      | S8 and S21 and S22 and S13 and S14   |
| 21 | BRS  | S24   | 40773   | (first second) near4 grating\$2<br>gratings  |
| 22 | BRS  | S25   | 25      | S23 and S24  |
| 23 | BRS  | S26   | 15      | S25 not S16  |
| 24 | BRS  | S53   | 10242   | (acoust\$5 acoust\$5 near4 optic\$4<br>acoustooptic\$3 acousticoptic\$4<br>acoustoptic\$4 optoacoust\$5) near12<br>(crystal\$5 glass\$2) |
| 25 | BRS  | S52   | 32      | S51 not S48  |
| 26 | BRS  | S48   | 6       | S47 and (acoust\$5 near4 optic\$4<br>acoustooptic\$3 acousticoptic\$4<br>acoustoptic\$4 optoacoust\$5)                                   |
| 27 | BRS  | S49   | 6       | S47 and (acoust\$5 near7 deflect\$5)   |
| 28 | BRS  | S29   | 3629181 | (half-wave halfwave plate\$2)  |
| 29 | BRS  | S28   | 136694  | (adjust\$5 tun\$4) near16 (reson\$5<br>mod\$2)   |
| 30 | BRS  | S57   | 36      | S55 and (acoust\$5 near4 optic\$4<br>acoustooptic\$3 acousticoptic\$4<br>acoustoptic\$4 optoacoust\$5) same<br>deflect\$5                |
| 31 | BRS  | S47   | 38      | S46 and filter\$4  |
| 32 | BRS  | S56   | 58      | S55 and (acoust\$5 near4 optic\$4<br>acoustooptic\$3 acousticoptic\$4<br>acoustoptic\$4 optoacoust\$5) near12<br>(crystal\$5 glass\$2)   |
| 33 | BRS  | S60   | 1       | S59 and S58  |
| 34 | BRS  | S55   | 181     | (S42 S43) and S53 and S54 and S33 and<br>grating\$2  |
| 35 | BRS  | S46   | 40      | S45 not S40  |
| 36 | BRS  | S59   | 1       | "6031852".pn.  |
| 37 | BRS  | S58   | 29      | S57 not (S52 S48 S40)  |

|    | DBs                                   | Time Stamp       |
|----|---------------------------------------|------------------|
| 20 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/05 20:09 |
| 21 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/05 20:09 |
| 22 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/05 20:10 |
| 23 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 11:27 |
| 24 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 12:58 |
| 25 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 12:30 |
| 26 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 12:51 |
| 27 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 12:29 |
| 28 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 11:27 |
| 29 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 11:56 |
| 30 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 13:00 |
| 31 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 12:18 |
| 32 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 12:59 |
| 33 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 15:18 |
| 34 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 12:58 |
| 35 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 12:07 |
| 36 | US-PGPUB; USPAT                       | 2006/06/06 15:17 |
| 37 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/11/20 15:29 |



|    | Type | Ref # | Hits    | Search Text  |
|----|------|-------|---------|--|
| 38 | BRS  | S45   | 55      | S42 and S43 and S44 and S33 and grating\$1   |
| 39 | BRS  | S44   | 2588    | (first second) near6 acoust\$6 same acoust\$6 near6 (reflect\$5 deflect\$5)                                      |
| 40 | BRS  | S43   | 714509  | (adjust\$5 tun\$4 shift\$5 chang\$5 control\$4) near16 (reson\$5 mod\$2)   |
| 41 | BRS  | S62   | 3       | S61 and (shift\$4 doppl\$5) near7 oppos\$5   |
| 42 | BRS  | S54   | 25705   | (acoust\$5 acoust\$5 near4 optic\$4 acoustooptic\$3 acousticoptic\$4 acoustoptic\$4 optoacoust\$5) same reson\$5 |
| 43 | BRS  | S42   | 62289   | reson\$5 same mod\$4   |
| 44 | BRS  | S61   | 19      | S55 and doppler\$1   |
| 45 | BRS  | S40   | 25      | S38 and S39  |
| 46 | BRS  | S35   | 10      | S27 and S28 and S29 and S30 and S31 and S32 and S33 and S34  |
| 47 | BRS  | S41   | 15      | S40 not S35  |
| 48 | BRS  | S39   | 40822   | (first second) near4 grating\$2 gratings   |
| 49 | BRS  | S38   | 46      | S27 and S36 and S37 and S32 and S33  |
| 50 | BRS  | S51   | 37      | S47 and (acoust\$5 near7 (shift\$5 reflect\$5))  |
| 51 | BRS  | S37   | 17206   | (first second) near4 acoust\$6   |
| 52 | BRS  | S36   | 255727  | (adjust\$5 tun\$4) same (reson\$5 mod\$2)  |
| 53 | BRS  | S34   | 14526   | (first second) near4 grating\$2  |
| 54 | BRS  | S33   | 36495   | transducer\$3 near14 acoust\$6   |
| 55 | BRS  | S32   | 2851    | acoust\$6 near14 grating\$1  |
| 56 | BRS  | S31   | 1999    | (first second) near4 acoust\$6 same acoust\$6 near5 (reflect\$5 deflect\$5)                                      |
| 57 | BRS  | S30   | 1376866 | (gain\$4 amplif\$5)  |

|    | DBs                                   | Time Stamp       |
|----|---------------------------------------|------------------|
| 38 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 12:03 |
| 39 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 11:59 |
| 40 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 11:57 |
| 41 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 15:20 |
| 42 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 12:57 |
| 43 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 11:56 |
| 44 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 15:19 |
| 45 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 11:55 |
| 46 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 11:55 |
| 47 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 11:38 |
| 48 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 11:27 |
| 49 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 11:27 |
| 50 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 12:29 |
| 51 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 11:27 |
| 52 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 11:27 |
| 53 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 12:00 |
| 54 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 11:27 |
| 55 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 11:27 |
| 56 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 11:58 |
| 57 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 11:27 |

|    | Type | Ref # | Hits   | Search Text  |
|----|------|-------|--------|--|
| 58 | BRS  | S27   | 35303  | reson\$5 near7 (cavit\$5 mod\$4) same mod\$4   |
| 59 | BRS  | S50   | 0      | S49 not S48  |
| 60 | BRS  | S85   | 1      | "6031852".pn.  |
| 61 | BRS  | S90   | 1      | S87 and (driv\$5 same (first and second))  |
| 62 | BRS  | S64   | 2981   | acoust\$6 near14 grating\$1  |
| 63 | BRS  | S84   | 37     | S83 not (S79 S77 S70)  |
| 64 | BRS  | S88   | 0      | S87 and (driv\$5 same frist and second)  |
| 65 | BRS  | S87   | 1      | 10/823191  |
| 66 | BRS  | S68   | 46     | S63 and S66 and S67 and S64 and S65  |
| 67 | BRS  | S69   | 43027  | (first second) near4 grating\$2 gratings   |
| 68 | BRS  | S70   | 25     | S68 and S69  |
| 69 | BRS  | S63   | 37094  | reson\$5 near7 (cavit\$5 mod\$4) same mod\$4   |
| 70 | BRS  | S71   | 65663  | reson\$5 same mod\$4   |
| 71 | BRS  | S66   | 269967 | (adjust\$5 tun\$4) same (reson\$5 mod\$2)  |
| 72 | BRS  | S67   | 18015  | (first second) near4 acoust\$6   |
| 73 | BRS  | S82   | 198    | (S71 S72) and S80 and S81 and S65 and grating\$2   |
| 74 | BRS  | S81   | 27028  | (acoust\$5 acoust\$5 near4 optic\$4 acoustooptic\$3 acousticoptic\$4 acoustoptic\$4 optoacoust\$5) same reson\$5 |
| 75 | BRS  | S73   | 2708   | (first second) near6 acoust\$6 same acoust\$6 near6 (reflect\$5 deflect\$5)                                      |
| 76 | BRS  | S74   | 58     | S71 and S72 and S73 and S65 and grating\$1   |
| 77 | BRS  | S75   | 43     | S74 not S70  |

|    | DBs                                   | Time Stamp       |
|----|---------------------------------------|------------------|
| 58 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 11:56 |
| 59 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/06/06 12:28 |
| 60 | US-PGPUB; USPAT                       | 2006/11/20 16:20 |
| 61 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/11/20 17:34 |
| 62 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/11/20 15:29 |
| 63 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/11/20 16:19 |
| 64 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/11/20 17:03 |
| 65 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/11/20 17:02 |
| 66 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/11/20 15:29 |
| 67 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/11/20 15:29 |
| 68 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/11/20 15:29 |
| 69 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/11/20 15:29 |
| 70 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/11/20 15:29 |
| 71 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/11/20 15:29 |
| 72 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/11/20 15:29 |
| 73 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/11/20 15:29 |
| 74 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/11/20 15:29 |
| 75 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/11/20 15:29 |
| 76 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/11/20 15:29 |
| 77 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/11/20 15:29 |

|    | Type | Ref # | Hits   | Search Text   |
|----|------|-------|--------|---|
| 78 | BRS  | S83   | 44     | S82 and (acoust\$5 near4 optic\$4<br>acoustooptic\$3 acousticoptic\$4<br>acoustoptic\$4 optoacoust\$5) same<br>deflect\$5   |
| 79 | BRS  | S77   | 6      | S76 and (acoust\$5 near4 optic\$4<br>acoustooptic\$3 acousticoptic\$4<br>acoustoptic\$4 optoacoust\$5)  |
| 80 | BRS  | S89   | 1      | S87 and (driv\$5 same first and second)   |
| 81 | BRS  | S76   | 41     | S75 and filter\$4   |
| 82 | BRS  | S72   | 752439 | (adjust\$5 tun\$4 shift\$5 chang\$5<br>control\$4) near16 (reson\$5 mod\$2)   |
| 83 | BRS  | S78   | 40     | S76 and (acoust\$5 near7 (shift\$5<br>reflect\$5))  |
| 84 | BRS  | S80   | 10785  | (acoust\$5 acoust\$5 near4 optic\$4<br>acoustooptic\$3 acousticoptic\$4<br>acoustoptic\$4 optoacoust\$5) near12<br>(crystal\$5 glass\$2)  |
| 85 | BRS  | S92   | 1      | S85 and (grating\$1 angl\$2)  |
| 86 | BRS  | S86   | 1      | S85 and (acoust\$5 near6 optic\$4<br>acoustooptic\$3 acousticoptic\$4<br>acoustoptic\$4 optoacoust\$5) same<br>(deflect\$5 modulat\$5 filter\$4) and<br>(chang\$4 adjust\$5 control\$5 tun\$5<br>var\$5 modif\$5) same (band\$6 signal\$2<br>frequenc\$4) same (light wavelength\$2<br>beam\$1) |
| 87 | BRS  | S65   | 37822  | transducer\$3 near14 acoust\$6  |
| 88 | BRS  | S91   | 1      | S87 and (grating\$1 angl\$2)  |
| 89 | BRS  | S79   | 35     | S78 not S77   |

|    | DBs                                   | Time Stamp       |
|----|---------------------------------------|------------------|
| 78 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/11/20 16:21 |
| 79 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/11/20 15:29 |
| 80 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/11/20 17:03 |
| 81 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/11/20 15:29 |
| 82 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/11/20 15:29 |
| 83 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/11/20 15:29 |
| 84 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/11/20 15:29 |
| 85 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/11/20 17:36 |
| 86 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/11/20 16:27 |
| 87 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/11/20 15:29 |
| 88 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/11/20 17:36 |
| 89 | US-PGPUB; USPAT; EPO;<br>JPO; DERWENT | 2006/11/20 15:29 |